

Non-slip surface production on glass pane for head lamp

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Abstract of DE19629241

Production of a non-slipping surface of a glass covering pane for a built-in head lamp comprises applying a transparent, liquid or pasty carrier layer (2) on the glass pane (1), the carrier layer having hard particles (3) embedded in it, from which a part protrudes over a height (H) after securing the carrier layer. The hard particles are made of corundum, ZrO₂, SiC, boron nitride, diamond, or titanium powder in an amount of 2-14 wt.% and having a grain size of 10-150 µm and/or 200-400 µm. The glass covering pane itself is also claimed. The carrier layer is a glass frit in paste form, to which hard particles are mixed before applying to the glass pane. To secure the carrier layer, the coated glass pane is heated to the melting temperature of the glass frit, the melting temperature of the hard particles being above that of the glass frit. The paste is made of 90-98 (pref. 96) wt.% easily melting glass, 1-5 (pref. 2) hard particles of 200-350 (pref. 280) µm grain size, and 1-5 (pref. 2) hard particles of 200-350 (pref. 280) µm grain size, and 1-5 (pref. 2) wt.% hard particles of 50-150 (pref. 110) µm grain size. After heating the glass pane to secure the carrier layer, the glass pane is hardened by blowing with cold air. The carrier layer is applied by screen printing, spin coating, casting, spraying or immersion coating. The glass pane is an alkali silicate float glass, borosilicate float or flat glass, flat glass, pressed glass or cast glass.

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